Attorney's Docket No.: 06275-124001 / D 1671-1P US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Carin Widerstrom Art Unit: 3735

Serial No.: 09/051,443 Examiner: Joseph F. Weiss, Jr.

Filed : April 10, 1998

Title : DISPOSABLE INHALER

Mail Stop Appeal Brief - Patents

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Appendix of Claims

- 1. A single use inhaler for administering medicament by inhalation, the inhaler comprising: an inhalation channel through which a user may inhale;
 - a first container containing a first dose of medicament; and
 - a first release means for releasing said first dose into the said inhalation channel; wherein the inhaler further comprises:

at least one subsidiary container containing a subsidiary dose of medicament; at least one respective subsidiary release means for releasing said subsidiary dose into said inhalation channel; wherein

said first release means is independently operable of said at least one subsidiary release means such that one or more of said first dose and said subsidiary dose may be released into said inhalation channel at the same time and such that a variable dose is provided and the subsidiary dose of said at least one said subsidiary container is a predetermined fraction of said first dose that is less than said first dose.

- 2. An inhaler according to claim 1 wherein said first container and said at least one subsidiary container are integral parts of the inhaler.
- 3. An inhaler according to claim 2 wherein said first container and said at least one subsidiary container comprise depressions in at least one wall of said inhalation channel and said release means and said subsidiary release means respectively comprise films sealing said depressions.

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4. An inhaler according to claim 3 wherein said first release means and said subsidiary release means comprise one or more elongate members attached to or integral with said films and with respective free ends which may be pulled by a user in order to remove the films from their respective depressions, thereby releasing the medicament contained in the respective depressions.

- 5. An inhaler according to claim 1, wherein said medicament is in a powdered form.
- 7. An inhaler according to claim 1 wherein the inhaler comprises at least two subsidiary containers containing further subsidiary doses and the further subsidiary doses of each of said at least two subsidiary containers is a predetermined fraction of said first dose that is less than said first dose.
- 8. An inhaler according to claim 7 wherein said subsidiary doses include different predetermined fractions of said first dose that are less than said first dose.
- 9. A method of providing a variable dose in a single use inhaler having an inhalation channel through which a user may inhale, a first container containing a first dose of medicament and a first release means for releasing said first dose into said inhalation channel, said method comprising;

providing at least one subsidiary container in said single use container containing a subsidiary dose of medicament whereby the subsidiary dose of said at least one said subsidiary container is a predetermined fraction of said first dose that is less than said first dose;

providing at least one respective subsidiary release means for releasing said subsidiary dose of medicament into said inhalation channel; and

arranging for said first release means to be independently operable of said subsidiary release means such that one or both of said first dose and said subsidiary dose

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may be released into said inhalation channel at the same time and such that a variable dose is provided.

10. A method of providing a variable quantity of substance in a channel of an administration device, comprising the steps of;

opening a first container containing a first dose of said substance and dispensing said substance in said channel;

selectively opening a subsidiary container containing a subsidiary dose of said substance according to the total quantity of substance required and dispensing said substance in said channel wherein said subsidiary container contains an amount of said substance which is a predetermined fraction of the amount of the substance contained in the container that is less than said first dose.

- 11. The method of claim 10 wherein said administration device administers a medicament and said substance is said medicament.
- 12. The method of claim 11 wherein said administration device is an inhalation device.